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### NOTICE OF ALLOWANCE AND FEE(S) DUE

271.48 7590 09/04/2009

POLSINELLI SHUGHART PC 700 W. 47TH STREET SUITE 1000

KANSAS CITY, MO 64112-1802

EXAMINER DUBASKY, GIGI L

ART UNIT PAPER NUMBER

2421 DATE MAILED: 09/04/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,940	10/01/2003	Yousri H. Barsoum	057709-133603 (015US1)	7858	

TITLE OF INVENTION: METHOD AND APPARATUS FOR MODULATING A VIDEO SIGNAL WITH DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	a) specifying a new o	orresp	ondence address;	and/o	(b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
700 W. 47TH S' SUITE 1000	SHUGHART PC TREET	V2009		I here State: addre transi	Cer eby certify that th s Postal Service w essed to the Mail mitted to the USP	tificate is Fee( vith sul Stop TO (57	of Mailing or Transi s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile te indicated below.
KANSAS CITY	, MO 64112-1802							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/676,940 TITLE OF INVENTION	10/01/2003 i: METHOD AND APPA	ARATUS FOR MODULA	Yousri H. Barsour ATING A VIDEO SIG		WITH DATA	05770	9-133603 (015US1)	7858
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	12/04/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
DUBASK		242I	725-138000					
I. Change of correspondence address or indication of "Fee Address" (2 CFR 1.853).  Change of correspondence address (or Change of Correspondence Address form PTOS/B1/22) attacked.  The Address from PTOS/B1/23 (attack).  The Address indication for "Fee Address' Indication form PTOS/B1/27, for 0.9-0.20 or more recent) attached. Use of a Custom Number is required.  ASSIGNIEE ANM AND RISIDENCE DATA TO BE PRINTED O			e or agents OR, alternatively.  (2) the name of a single firm (thiving as amender a registered atterney or agent) and the names of up to 2 listed, no name will be printed.  [I so name will be printed.]					
(A) NAME OF ASSI	GNEE	ified below, no assignee pletion of this form is NO	(B) RESIDENCE: (C	TTY.	and STATE OR C	OUNT	RY)	ecument has been filed for up entity
Advance Order -	No small entity discount p	permitted)	b. Payment of Fee(s): ( A check is enclos Payment by credi The Director is he overpayment, to I	ed. t card	I. Form PTO-2038	is atta	ched.	hown above) Ticiency, or credit any extra copy of this form).
	ns SMALL ENTITY state	as. See 37 CFR 1.27.					ITTY status. See 37 CF	
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	ian ui	c applicant, a regi	surcu.	morney or agent, or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name			Registration No.					
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# UNITED STATES PATENT AND TRADEMARK OFFICE

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27148	7590	09/04/2009		EXAMINER			
POLSINELLI	SHUGH	ART PC	DUBASKY, GIGIL				
700 W. 47TH STREET				ART UNIT	PAPER NUMBER		
SUITE 1000 KANSAS CITY	. MO 641	12-1802		2421			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1037 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1037 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/676 940 BARSOUM ET AL. Notice of Allowability Examiner Art Unit GIGIL DUBASKY 2421 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 08/07/2009. 2. X The allowed claim(s) is/are 50,56-59,72-73,82-83,93-94,96 and 98-100 that have been renumbered 1, 6-13,2-4,15, 14, and 5. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

of Biological Material

9. Other \_\_\_\_.
/JOHN W. MILLER/

Supervisory Patent Examiner, Art Unit 2421

Application/Control Number: 10/676,940

Art Unit: 2421

### DETAILED ACTION

## Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

The art of record either alone or in combination fails to particularly disclose or suggest "modulating at least one first field segment of the plurality of segments of the first field and at least one second field segment of the plurality of segments of the second field with auxiliary data by altering the pixel value of the plurality of pixels of the first field segment and the second field segment, and wherein at least one second corresponding field segment in the second field that corresponds to the first modulated field segment is not modulated, at least one first corresponding field segment in the first field that corresponds to the second modulated field segment is not modulated, and the plurality of pixels in a corresponding field segment of a field of the frame that correspond to the plurality of pixels in a particular modulated field segment of the other field of the frame have a different pixel value based on the modulating of the first field segment and the second field segment" as claimed in claims 50 and 56 in view of Applicant's arguments filed on 03/30/2009 and 08/07/2009.

The art of record either alone or in combination fails to particularly disclose or suggest "seeking a first display section of a picture presented on a display device is black; waiting an amount of time for a vertical refresh of the picture to occur on the display device; determining if a second display section of the picture presented on the

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display device is black; seeking beyond the first display section when the picture presented on the display device for the second display section is not black; locking on a vertical retrace period when the second display section is black; optically obtaining a frame of a video signal from the display device; and determining whether auxiliary data is present in the frame by performing a field comparison on a plurality of segments of a first field and a plurality of corresponding segments of a second field for the frame based on the locking on the vertical retrace period" as claimed in claim 98.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIGI L. DUBASKY whose telephone number is (571)270-5686. The examiner can normally be reached on Monday through Thursday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2421

GD

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JOHN W. MILLER/ Supervisory Patent Examiner, Art Unit 2421